

National Transportation Safety Board “Positive Train Control: Is it on Track?”



Spectrum Solutions February 27, 2013

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OVERVIEW

- The FCC is Committed to Working With FRA, NTSB, the Rail Industry, and Stakeholders to Enable Timely Implementation of PTC
- Enhancing Rail Safety is a National Priority Shared by the FCC
- Spectrum Is One Factor of Many Required To Solve the PTC Puzzle

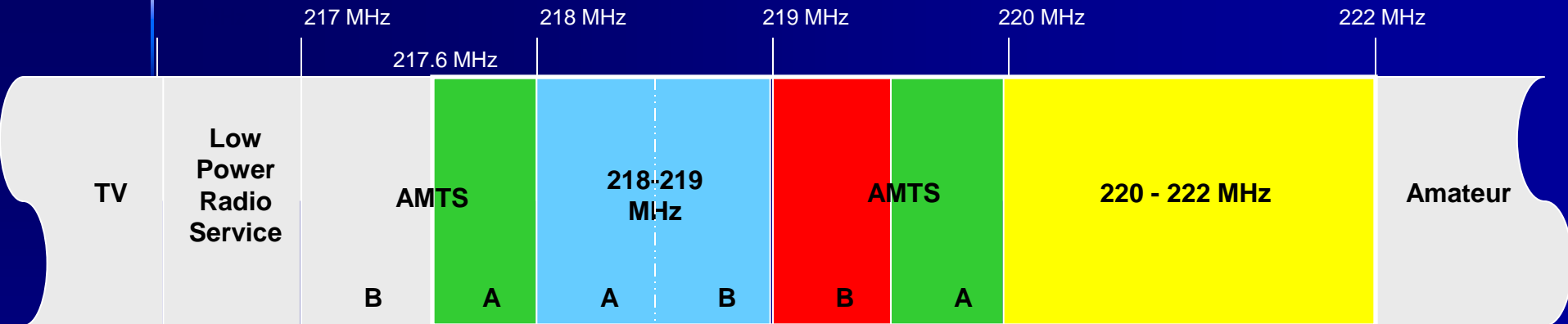
RAIL SAFETY IMPROVEMENT ACT of 2008 (RSIA)

- Congress Did Not Allocate Spectrum for PTC
- Congress Did Not Direct the FCC To Allocate Spectrum for PTC
- By Law, the FCC Assigns Exclusive Spectrum Licenses by Auction

FCC Spectrum Inquiry

- In May 2011, the Wireless Telecommunications Bureau Initiated a PTC Spectrum Needs Inquiry
- The Rail Industry Needs To Assess Its Spectrum Needs
- Initial Estimates by Some Rails Substantially Overestimated Needs

Spectrum Targeted by the Rail Industry for PTC (217.6 MHz – 222 MHz)



↑
Class I Freight Rail Consortium
(PTC-220) holds @ 380 kHz of
spectrum nationwide (and an
additional 100 kHz in key
markets, including Los Angeles,
San Francisco, and St Louis)

Spectrum Auctions Would Not Solve The Problem

- Key Markets Are Already Licensed
- Some Rails May Not Succeed at Auction Because the Targeted Spectrum is Prized by Others
- So What Will Work?

**Spectrum is Available in the
Secondary Market to Meet
PTC Needs**

**The FCC Can Help Bring
Buyers and Sellers Together**

**Commuter and Freight
Rails Must Continue To
Collaborate To Efficiently Use
Spectrum and Share
Infrastructure**

Chicago Example

Secondary Spectrum Markets Are Vibrant

- Spectrum Acquisition
 - MTA Holds NY Market
 - SEPTA's Needs Are Met
 - Others Proactively Seeking Spectrum
- Spectrum Leasing
 - PTC-220 Spectrum and Expertise To Implement Marketwide Solutions
 - Metrolink Lease

Facilitating Secondary Markets

- The FCC Will Consider Requests for FCC Approval of Assignments and Lease of Spectrum for PTC on a Fast Track
- The FCC Will Also Consider Requests for Waiver of Technical and Service Rules Expeditiously

Waiver of FCC Rules To Enable PTC Deployments

Construction Schedule

Power Limits

Base/Mobile Configuration

Discontinuance of Service

Key Spectrum Holders

- PTC-220

- NRTC

- Spectrum Bridge

- Skybridge

PTC-220

220 MHz Nationwide Spectrum

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PTC-220 Spectrum Coordinator

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National Rural Telecommunications Cooperative (NRTC)

220 MHz Nationwide Licensee

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SPECTRUM BRIDGE

(Broker)

- 218-219 MHz (Chicago, Dallas, Philadelphia, others)
- 220-222 MHz

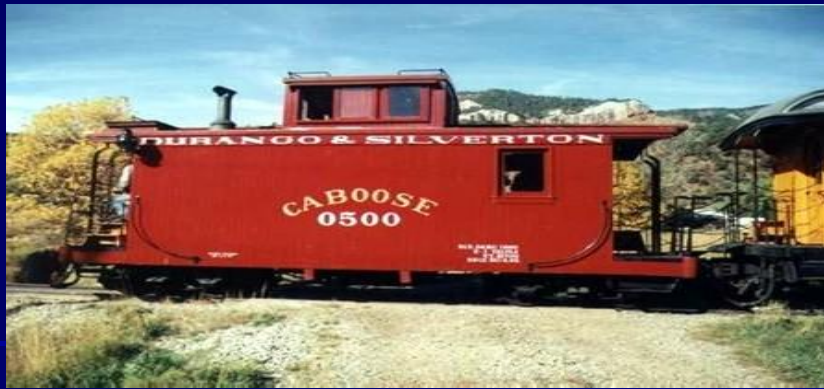
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SKYBRIDGE

- AMTS A and B Blocks
- 220-222 MHz
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- FCC Stands Ready To Assist the Rail Industry and Spectrum Licensees
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